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((SPEC/query AND SPEC/path) AND SPEC/"bounding box") AND SPEC/"moving object"): 22 patents.

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





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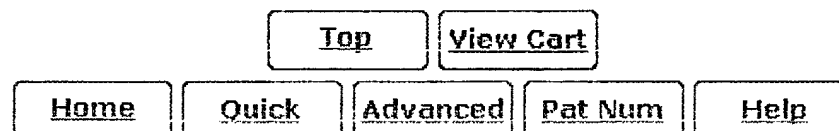
SPEC/query AND SPEC/path AND SPEC/"bounding

PAT.
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Title

- 1 [7,117,199](#) **T** [Spatially coding and displaying information](#)
- 2 [7,068,288](#) **T** [System and method for moving graphical objects on a computer controlled system](#)
- 3 [7,016,781](#) **T** [Method and system for querying in a moving object database](#)
- 4 [6,968,271](#) **T** [Method and system for querying in a moving object database](#)
- 5 [6,965,827](#) **T** [Method and system for tracking moving objects](#)
- 6 [6,925,473](#) **T** [Staged stylization in multiple tiers](#)
- 7 [6,895,329](#) **T** [Method and system for querying in a moving object database](#)
- 8 [6,809,738](#) **T** [Performing memory management operations to provide displays of complex virtual environments](#)
- 9 [6,801,850](#) **T** [Method and system for tracking moving objects](#)
- 10 [6,791,549](#) **T** [Systems and methods for simulating frames of complex virtual environments](#)
- 11 [6,424,370](#) **T** [Motion based event detection system and method](#)

- 12 6,295,367  System and method for tracking movement of objects in a scene using correspondence graphs
- 13 6,263,088  System and method for tracking movement of objects in a scene
- 14 6,236,736  Method and apparatus for detecting movement patterns at a self-service checkout terminal
- 15 6,185,314  System and method for matching image information to object model information
- 16 6,058,397  3D virtual environment creation management and delivery system
- 17 6,054,991  Method of modeling player position and movement in a virtual reality system
- 18 5,969,755  Motion based event detection system and method
- 19 5,850,352  Immersive video, including video hypermosaicing to generate from multiple video views of a scene a three-dimensional video mosaic from which diverse virtual video scene images are synthesized, including panoramic, scene interactive and stereoscopic images
- 20 5,745,126  Machine synthesis of a virtual video camera/image of a scene from multiple video cameras/images of the scene in accordance with a particular perspective on the scene, an object in the scene, or an event in the scene
- 21 5,729,471  Machine dynamic selection of one video camera/image of a scene from multiple video cameras/images of the scene in accordance with a particular perspective on the scene, an object in the scene, or an event in the scene
- 22 5,572,634  Method and apparatus for spatial simulation acceleration
-



United States Patent
Wolfson

6,968,271
November 22, 2005

Method and system for querying in a moving object database

Abstract

A database receives location information about a moving object. Using the destination of the object and an electronic map, the database finds a projected path for the moving object. From the projected path, the database computes a trajectory. The trajectory may be used to estimate past and future positions of the moving object. The moving object may send location updates to the database when its actual location differs from its anticipated location by more than an uncertainty threshold.

Inventors: Wolfson; Ouri (Highland Park, IL)

Assignee: Board of Trustees of the University of Illinois (Chicago, IL)

Appl. No.: 11/038,741

Filed: January 20, 2005

Related U.S. Patent Documents

<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>
074903	Oct., 2001	6895329	

Current U.S. Class: 701/209 ; 340/988; 340/995.23; 701/201;
701/205; 701/210

Field of Search: 701/209,201,205,210,202,204,211
340/988,990,995.23,991,992,993,995
707/3,4,5

United States Patent
Crabtree, et al.

6,295,367
September 25, 2001

**System and method for tracking movement of objects in a scene
using correspondence graphs**

Abstract

A system and method for tracking movement of objects in a scene from a stream of video frames using first and second correspondence graphs. A first correspondence graph, called an object correspondence graph, is formed comprising a plurality of nodes representing region clusters in the scene which are hypotheses of objects to be tracked, and a plurality of tracks. Each track comprises an ordered sequence of nodes in consecutive video frames that represents a track segment of an object through the scene. A second correspondence graph, called a track correspondence graph, is created, comprising a plurality of nodes, each node corresponding to at least one track in the first correspondence graph. A track comprising an ordered sequence of nodes in the second correspondence graph represents the path of an object through the scene. Tracking information for objects, such as persons, in the scene, is accumulated based on the first correspondence graph and second correspondence graph.

Inventors: Crabtree; Ralph N. (Atlanta, GA), Moed; Michael C. (Roswell, GA), Khosravi; Mehdi (Roswell, GA)

Assignee: Emtera Corporation (Marietta, GA)

Appl. NO.: 09/019,595

Filed: February 6, 1998

Current U.S. Class:

382/103

Field of Search:

382/103,228,224,104,199,160,107
348/169,172,148

United States Patent**7,068,288****Good , et al.****June 27, 2006**

System and method for moving graphical objects on a computer controlled system**Abstract**

A user interface method and system for positioning graphical objects in the display area of a free form system. A selected object may operate in a first state where it can be moved to different positions within the display area. The selected object may further operate in a second state where movement of the selected object causes other graphical objects within its path of movement to also move. The state of the selected object is indicated by a visually distinct presentation of the graphical object, for example when in the first state the graphical object is shown to have shadow to provide the visual clue that it is "above" the other graphical objects in the display area. A user may dynamically switch between states based on signals provided to the system.

Inventors: **Good; Lance E.** (Cupertino, CA), **Stefik; Mark I.** (Portola Valley, CA), **Baudisch; Patrick** (Seattle, WA), **Mackinlay; Jock D.** (Palo Alto, CA), **Zellweger; Folle T.** (Palo Alto, CA)

Assignee: **Xerox Corporation** (Stamford, CT)

Appl. No.: **10/371,263**

Filed: **February 21, 2003**

Current U.S. Class:

345/619 ; 345/629

Current International Class:

G06G 5/00 (20060101)

Field of Search:

**345/619,427,634,703,441,564,214,55,629
707/5,6**

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 >>> or undefined in one or more files.
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 >>>File 63 processing for PD= : PD=031103
 >>> started at PD=DATED stopped at PD=19680517
 >>>File 81 processing for PD= : PD=031103
 >>> started at PD=19390728 stopped at PD=19920325
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 1582213 PD<=031103
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 16556 QUERIES
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 776988 BOUND?
 84915 BOX?
 732 BOUND?(2N)BOX?
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 >>>File 63 processing for PD= : PD=031103

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>>> started at PD=19390728 stopped at PD=19920325
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    16556 QUERIES
      111 MOV?(4N)QUERIES
    776988 BOUND?
    84915 BOX?
      914 BOUND?(4N)BOX?
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>>>File 63 processing for PD= : PD=031103
>>> started at PD=DATED stopped at PD=19680517
>>>File 81 processing for PD= : PD=031103
>>> started at PD=19390728 stopped at PD=19920325
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    531682 MOV?
    998871 OBJECT?
    84915 BOX?
    16556 QUERIES
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      (S) QUERIES)
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    531682 MOV?
    998871 OBJECT?
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84915 BOX?
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5 MOV? (4N) OBJECT? (S) BOX? (S) QUERIES
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709411 SPEED?
531682 MOV?
998871 OBJECT?
84915 BOX?
16556 QUERIES
5 MOV? (4N) OBJECT? (S) BOX? (S) QUERIES
S5 0 (DIRECTION? OR SPEED?) AND ((MOV? (4N) OB
(S) QUERIES)
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